

2001-014627

- 23 -

WHAT IS CLAIMED IS:

1. A disposable diaper comprising:

a basic absorbent batt structure;

5 a pair of barrier cuffs;

at least one supplementary absorbent batt structure;

10 said basic absorbent batt structure having and a liquid-pervious body facing surface and a liquid-impervious garment facing surface, and a front waist region, a rear waist region and a crotch region;

said barrier cuffs having proximal edge portions and distal edge portions and extending along transversely opposite sides of said basic absorbent batt structure so as to rise up said body facing surface of said basic absorbent batt structure
15 under tension of said elasticized barrier cuffs; and

said supplementary absorbent batt structure having a liquid-pervious body facing surface and an opposite surface, and a proximal end portion and a distal end portion and being placed upon said body facing surface of said basic absorbent
20 batt structure between said barrier cuffs, said proximal end portion lying said front waist region while said distal end portion being supported along transversely opposite side edges of supplementary absorbent batt structure in a vicinity of said

10054505 010303

2001-014627

4

distal edge portion by vicinities of said distal edge portions of said barrier cuffs so that said basic and supplementary absorbent batt structures define therebetween a pocket opening from said crotch region toward said front waist region, with
5 and at least said distal end portion except said proximal end portion of said supplementary absorbent batt structure spaced apart upwardly from said body facing surface of said basic absorbent batt structure under tension of said barrier cuffs.

10 2. A disposable diaper according to Claim 1, wherein said basic absorbent batt structure comprises a liquid-pervious topsheet defining said body facing surface thereof, a liquid-impervious backsheet defining said garment facing surface thereof and a liquid-absorbent first core disposed
15 therebetween.

3. A disposable diaper according to Claim 1, wherein said supplementary absorbent batt structure comprises a liquid-absorbent second core and a liquid-pervious sheet covering at
20 least a body facing surface of said second core.

4. A disposable diaper according to Claim 1, wherein said barrier cuffs are elasticized by elastic members secured along

2005-01-25 04:30:00

2001-014627

- 25 -

said distal end portions thereof.

5. A disposable diaper according to Claim 1, wherein said
distal end portions of said barrier cuffs are positioned
5 inwardly of said proximal end portions of said barrier cuffs.

6. A disposable diaper according to Claim 2, wherein said
basic absorbent batt structure comprises a pair of elasticized
gasket cuffs extending outwardly from transversely opposite
10 side edges of said first core.

7. A disposable diaper according to Claim 6, wherein said
gasket cuffs are elasticized by elastic members secured
therealong.

15 8. A disposable diaper according to Claim 6, wherein said
proximal end portions of said barrier cuffs are joined onto said
gasket cuffs.

20 9. A disposable diaper according to Claim 1, wherein said
diaper further comprises a second supplementary absorbent batt
structure having a body facing surface covered with a
liquid-pervious sheet and lying on the body facing surface of

2002-01-18 19:01

2001-014627

- 26 -

said basic absorbent batt structure;

said second supplementary absorbent batt structure has a proximal end portion lying in said rear waist region so as to be placed upon said basic absorbent batt structure, a distal end portion lying in said crotch region and spaced upward from said basic absorbent batt structure;

said second supplementary absorbent batt structure is connected, along transversely opposite side edges thereof, to the said distal edge portions of said barrier cuffs with said liquid-pervious sheet lying therebetween so that said basic and second supplementary absorbent batt structures form therebetween a pocket opening from said crotch region toward said rear waist region; and

said distal end portions of said two supplementary absorbent batt structures are spaced from each other by a given dimension in a longitudinal direction of the diaper so that said body facing surface of said basic absorbent batt structure is partially exposed between said distal end portions of said two supplementary absorbent batt structures.

20

10. A disposable diaper according to Claim 9, wherein the dimension by which said supplementary absorbent batt structure extends from said front waist region to said crotch region is

10054825-012303

2001-014627

- 27 -

larger than the dimension by that said second supplementary absorbent batt structure extends from said rear waist region to said crotch region and said body facing surface of said basic absorbent batt structure is exposed in said crotch region at
5 a position put aside to said rear waist region.

11. A disposable diaper according to Claim 1, wherein an absorbing capacity per unit for body wastes of said supplementary absorbent batt structure is greater than that of
10 said basic absorbent batt structure.

2005.01.23 10:54:50